

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/590, 136  
Source: IFWP  
Date Processed by STIC: 08/30/2006

# ***ENTERED***



IFWP

## RAW SEQUENCE LISTING

DATE: 08/30/2006

PATENT APPLICATION: US/10/590,136

TIME: 09:15:37

Input Set : A:\seqlist.txt

Output Set: N:\CRF4\08302006\J590136.raw

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3 <110> APPLICANT: Bloom, David C.
4   Amelio, Antonio L.
6 <120> TITLE OF INVENTION: INSULATED HERPESVIRUS-DERIVED GENE EXPRESSION CASSETTES FOR
7   SUSTAINED AND REGULATABLE GENE EXPRESSION
9 <130> FILE REFERENCE: 36689.259
C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/590,136
12 <141> CURRENT FILING DATE: 2006-08-17
14 <150> PRIOR APPLICATION NUMBER: PCT/US05/05461
15 <151> PRIOR FILING DATE: 2005-02-17
17 <150> PRIOR APPLICATION NUMBER: 60/545,375
18 <151> PRIOR FILING DATE: 2004-02-17
20 <160> NUMBER OF SEQ ID NOS: 111
22 <170> SOFTWARE: PatentIn version 3.3
24 <210> SEQ ID NO: 1
25 <211> LENGTH: 21
26 <212> TYPE: DNA
27 <213> ORGANISM: Herpes simplex virus
29 <400> SEQUENCE: 1
30 tgaacccag cccagaaac c                                     21
33 <210> SEQ ID NO: 2
34 <211> LENGTH: 22
35 <212> TYPE: DNA
36 <213> ORGANISM: Herpes simplex virus
38 <400> SEQUENCE: 2
39 cgagtaaacc atgttaagga cc                                   22
42 <210> SEQ ID NO: 3
43 <211> LENGTH: 24
44 <212> TYPE: DNA
45 <213> ORGANISM: Herpes simplex virus
47 <400> SEQUENCE: 3
48 ctgatcacgc ggctgctgta cacc                                24
51 <210> SEQ ID NO: 4
52 <211> LENGTH: 24
53 <212> TYPE: DNA
54 <213> ORGANISM: Herpes simplex virus
56 <400> SEQUENCE: 4
57 ggtgatgaag gagctgctgt tgcg                                24
60 <210> SEQ ID NO: 5
61 <211> LENGTH: 19
62 <212> TYPE: DNA
63 <213> ORGANISM: Herpes simplex virus
65 <400> SEQUENCE: 5
66 catcaccgac ccggagagc                                     19

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69 <210> SEQ ID NO: 6
70 <211> LENGTH: 22
71 <212> TYPE: DNA
72 <213> ORGANISM: Herpes simplex virus
74 <400> SEQUENCE: 6
75 gggccaggcg cttgttggtg ta                22
78 <210> SEQ ID NO: 7
79 <211> LENGTH: 20
80 <212> TYPE: DNA
81 <213> ORGANISM: Oryctolagus cuniculus
83 <400> SEQUENCE: 7
84 aagatctggc accacacctt                20
87 <210> SEQ ID NO: 8
88 <211> LENGTH: 20
89 <212> TYPE: DNA
90 <213> ORGANISM: Oryctolagus cuniculus
92 <400> SEQUENCE: 8
93 cgaacatgat ctgggtcatc                20
96 <210> SEQ ID NO: 9
97 <211> LENGTH: 20
98 <212> TYPE: DNA
99 <213> ORGANISM: Mus musculus
101 <400> SEQUENCE: 9
102 ggagcctaaa cctgtctgtc                20
105 <210> SEQ ID NO: 10
106 <211> LENGTH: 20
107 <212> TYPE: DNA
108 <213> ORGANISM: Mus musculus
110 <400> SEQUENCE: 10
111 gtgtgtcata gctcaagagg                20
114 <210> SEQ ID NO: 11
115 <211> LENGTH: 26
116 <212> TYPE: DNA
117 <213> ORGANISM: Mus musculus
119 <400> SEQUENCE: 11
120 actcagtcca aacatataca agatgc                26
123 <210> SEQ ID NO: 12
124 <211> LENGTH: 25
125 <212> TYPE: DNA
126 <213> ORGANISM: Mus musculus
128 <400> SEQUENCE: 12
129 ctatctacaa caaacttctc ctggg                25
132 <210> SEQ ID NO: 13
133 <211> LENGTH: 16
134 <212> TYPE: DNA
135 <213> ORGANISM: Herpes simplex virus
137 <400> SEQUENCE: 13
138 gcatgcgtcg cccaac                16
141 <210> SEQ ID NO: 14

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142 <211> LENGTH: 20
143 <212> TYPE: DNA
144 <213> ORGANISM: Herpes simplex virus
146 <400> SEQUENCE: 14
147 cagtttagatt gcatgtgatc 20
150 <210> SEQ ID NO: 15
151 <211> LENGTH: 20
152 <212> TYPE: DNA
153 <213> ORGANISM: Herpes simplex virus
155 <400> SEQUENCE: 15
156 ctctgtgggtt aacaccagag 20
159 <210> SEQ ID NO: 16
160 <211> LENGTH: 20
161 <212> TYPE: DNA
162 <213> ORGANISM: Herpes simplex virus
164 <400> SEQUENCE: 16
165 gtctgtcttg gatgtatcgc 20
168 <210> SEQ ID NO: 17
169 <211> LENGTH: 17
170 <212> TYPE: DNA
171 <213> ORGANISM: Herpes simplex virus
173 <400> SEQUENCE: 17
174 caacgctact gcaaaac 17
177 <210> SEQ ID NO: 18
178 <211> LENGTH: 16
179 <212> TYPE: DNA
180 <213> ORGANISM: Herpes simplex virus
182 <400> SEQUENCE: 18
183 gacggggtgc tgtaac 16
186 <210> SEQ ID NO: 19
187 <211> LENGTH: 17
188 <212> TYPE: DNA
189 <213> ORGANISM: Herpes simplex virus
191 <400> SEQUENCE: 19
192 cacgaacgac gggagcg 17
195 <210> SEQ ID NO: 20
196 <211> LENGTH: 17
197 <212> TYPE: DNA
198 <213> ORGANISM: Herpes simplex virus
200 <400> SEQUENCE: 20
201 caccgaaggt gcttacc 17
204 <210> SEQ ID NO: 21
205 <211> LENGTH: 17
206 <212> TYPE: DNA
207 <213> ORGANISM: Herpes simplex virus
209 <400> SEQUENCE: 21
210 cgtgatcgcc tgtctcc 17
213 <210> SEQ ID NO: 22
214 <211> LENGTH: 17

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215 <212> TYPE: DNA
216 <213> ORGANISM: Herpes simplex virus
218 <400> SEQUENCE: 22
219 cattgccaat cgaaccc 17
222 <210> SEQ ID NO: 23
223 <211> LENGTH: 20
224 <212> TYPE: DNA
225 <213> ORGANISM: Herpes simplex virus
227 <400> SEQUENCE: 23
228 ccttgccgtg gtcctgtgga 20
231 <210> SEQ ID NO: 24
232 <211> LENGTH: 20
233 <212> TYPE: DNA
234 <213> ORGANISM: Herpes simplex virus
236 <400> SEQUENCE: 24
237 gttgggggttt ggggtcgatg 20
240 <210> SEQ ID NO: 25
241 <211> LENGTH: 11
242 <212> TYPE: DNA
243 <213> ORGANISM: Artificial
245 <220> FEATURE:
246 <223> OTHER INFORMATION: Synthetic oligonucleotide
248 <400> SEQUENCE: 25
249 acgcaccccc a 11
252 <210> SEQ ID NO: 26
253 <211> LENGTH: 208
254 <212> TYPE: DNA
255 <213> ORGANISM: Artificial
257 <220> FEATURE:
258 <223> OTHER INFORMATION: Synthetic oligonucleotide
260 <400> SEQUENCE: 26
261 taactggctc cctctcccc cctctcccc ctccccctc tccccctctc cccccctctc 60
263 cctctcccc cctctcccc ctccccctc ctccccctc cccccctctc cctctcccc 120
265 cctctcccc tctccccctc tctccccctc cccccctctc cccccctctc cccccctctc 180
267 ctctccccctc ctctccccctc tctctctt 208
270 <210> SEQ ID NO: 27
271 <211> LENGTH: 205
272 <212> TYPE: DNA
273 <213> ORGANISM: Artificial
275 <220> FEATURE:
276 <223> OTHER INFORMATION: Synthetic oligonucleotide
278 <400> SEQUENCE: 27
279 ctctgtggtt aacaccagag cctgcccac ataggcccc cactcccacg cccccccact 60
281 cccacgcacc cccactccca cgcaccccc ctcccacgca cccccactcc cagcaccacc 120
283 cactcccacg cccccccact cccacgcacc cccactccca cgcaccccc ctcccacgca 180
285 tccccgcgat acatccaaca cagac 205
288 <210> SEQ ID NO: 28
289 <211> LENGTH: 239
290 <212> TYPE: DNA

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Input Set : A:\seqlist.txt

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291 <213> ORGANISM: Artificial
293 <220> FEATURE:
294 <223> OTHER INFORMATION: Synthetic oligonucleotide
296 <400> SEQUENCE: 28
297 cggcgtcttg ccgctcctcc ccccgctcct cccccgctc ctcccccgcc tctccccccc 60
299 gctcctcccc ccgctcctcc ccccgctcct cccccgctc ctcccccgcc tctccccccc 120
301 ctctctcccc ccgctcctcc ccccgctcct cccccgctc tcccccgct cctccccccc 180
303 ctctctcccc ccgctcctcc ccccgctcct cccccgctc tcccccgct cccgcggccc 239
306 <210> SEQ ID NO: 29
307 <211> LENGTH: 581
308 <212> TYPE: DNA
309 <213> ORGANISM: Artificial
311 <220> FEATURE:
312 <223> OTHER INFORMATION: Synthetic oligonucleotide
314 <400> SEQUENCE: 29
315 caccaccgcc cctccccag cccagccct cccagcccc agcctcccc ggccccagcc 60
317 ctccccggcc ccagccctcc ccggccccag cctccccgg cccagccct ccccgcccc 120
319 agcctcccc ggccccagcc ctccccggcg cgtcccgcg tccctcgggg ggggtcgggc 180
321 atctctacct cagtgcggcc aatctcaggt cagagatcca aacctccgg gggcgccgc 240
323 gcaccaccac cgcctctgc cccctccgc cctcgcccc ctcccgcccc tcgccccctc 300
325 ccgccccctg cccctcccg cccctcgccc cctccgccc ctcgccccct cccgccccctc 360
327 gccccctccc gccccctgccc cctcccgccc cctcgcccc tcccgcccc cgcctccctc 420
329 cgccccctgc cccctccgc cctcgcccc ctcccgcccc tcgccccctc ccgccccctg 480
331 cccctcccg cccctcgccc cctccgccc ctcgccccct cccgccccctc gccccctccc 540
333 gccccctgccc cctcccgccc cctcgcccc tcccgcccc c
336 <210> SEQ ID NO: 30
337 <211> LENGTH: 115
338 <212> TYPE: DNA
339 <213> ORGANISM: Artificial
341 <220> FEATURE:
342 <223> OTHER INFORMATION: Synthetic oligonucleotide
344 <400> SEQUENCE: 30
345 ctccccccct gcgccccgc ctctccccct ctggcccccc gctcctccc cctggcgccc 60
347 ccgctccttc cccctggccc ccgcctcct cccctcgcg ccccgccctc ctccc 115
350 <210> SEQ ID NO: 31
351 <211> LENGTH: 140
352 <212> TYPE: DNA
353 <213> ORGANISM: Artificial
355 <220> FEATURE:
356 <223> OTHER INFORMATION: Synthetic oligonucleotide
358 <400> SEQUENCE: 31
359 ccctcaccca cccaccctc acccaccac ccctcaccca cccaccctc acccaccac 60
361 ccctcaccca cccaccctc acccaccac ccctcaccca cccaccctc acccaccac 120
363 ccctcaccca cccaccctc
366 <210> SEQ ID NO: 32
367 <211> LENGTH: 12
368 <212> TYPE: DNA
369 <213> ORGANISM: Herpes simplex virus
371 <400> SEQUENCE: 32

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RAW SEQUENCE LISTING ERROR SUMMARY

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Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,  
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:25,26,27,28,29,30,31

**VERIFICATION SUMMARY**

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Input Set : A:\seqlist.txt

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L:11 M:270 C: Current Application Number differs, Replaced Current Application Number